IN THE CLAIMS:

All pending claims are set forth below. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), and (new). Please AMEND claims 1 and 7 and ADD new claims 13 and 14 in accordance with the following:

1. (currently amended) A motor controller for performing control of position or velocity of a movable member mechanically connected with a motor using analog feedback signals from encoders for detecting rotational position or velocity of the motor, or position or velocity of the movable member, wherein said motor controller includes means for automatically A/D converting, determining and displaying information on at least one of amplitudes, offsets and a phase difference of the analog feedback signals on a digital display section of the motor controller or a host controller connected with the motor controller.

2. (original) A motor controller according to claim 1, wherein the display section of the motor controller includes a LED display device.

a'

3. (original) A motor controller according to claim 1, wherein the display section of the motor controller includes a seven-segmented display device.

4. (original) A motor controller according to claim 1, wherein the display section of the motor controller includes a display device connected with the motor controller.

5. (original) A motor controller according to claim 1, wherein the information on at least one of the amplitudes, the offsets and the phase difference is obtained based on A/D conversion values of the analog feedback signals.

6. (original) A motor controller according to claim 1, further including means for calculating at least one of the offsets, the amplitudes and the phase difference of the analog feedback signals of two different phases.

7. (currently amended) A motor controller for performing control of position or velocity of a movable member mechanically connected with a motor using analog feedback signals from encoders for detecting rotational position or velocity of the motor, or position or velocity of the

movable member, wherein said motor controller includes means for automatically A/D converting, determining and displaying results of comparison of amplitudes and/or offsets of the analog feedback signals with respective predetermined values on a digital display section of the motor controller or a host controller connected with the motor controller.

8. (original) A motor controller according to claim 7, wherein the display section of the motor controller includes a LED display device.

9. (original) A motor controller according to claim 7, wherein the display section of the motor controller includes a seven-segmented display device.

10. (original) A motor controller according to claim 7, wherein the display section of the motor controller includes a display device connected with the motor controller.

A1

11. (original) A motor controller according to claim 7, wherein the amplitudes and/or the offsets are obtained based on A/D conversion values of the analog feedback signals.

12. (original) A motor controller according to claim 7, further including means for calculating the offsets and/or the amplitudes of the analog feedback signals of two different phases.

13. (new) A motor controller for performing control of position or velocity of a movable member mechanically connected with a motor using analog feedback signals from encoders for detecting rotational position or velocity of the motor, or position or velocity of the movable member, said motor controller comprising:

a converter converting the analog feedback signals into digital feedback signals;

a processor unit automatically determining at least one of amplitudes, offsets and a phase difference of the analog feedback signals; and

a digital display displaying the at least one of the amplitudes, offsets and a phase difference of the analog feedback signals section of the motor controller.

14. (new) A motor controller for performing control of position or velocity of a movable member mechanically connected with a motor using analog feedback signals from encoders for

detecting rotational position or velocity of the motor, or position or velocity of the movable member, said motor controller comprising:

a converter converting the analog feedback signals into digital feedback signals;

a processor unit automatically performing a comparisons of amplitudes and/or offsets of the analog feedback signals with respective predetermined values; and

a digital display displaying the at least one of the comparisons of amplitudes and/or offsets of the analog feedback signals with respective predetermined values.